Application

Call	NRF Awards
Call Start Date	25 February 2025
Call End Date	15 May 2025
Reference	NONF250411310281
Title	Mr
Initials	ts
Name	tshingombe tshingombe
Email	tshingombefiston@gmail.com
ID/Passport Number	tircgog0091616
Race	African
Gender	Male
Citizenship	Non-South African citizen
Organisation	South African Qualifications Authority (SAQA)
Birth Date	10 October 1982
Date Generated	15 October 2025 09:31

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Details of Nominator

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Motivation for Nomination

Qualifications/Certifications

Research Expertise

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- Primary Research Fields
- Secondary Research Fields
- Field Of Specialisation

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Career History
Research Outputs
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Patents
Expectations
Application Support Input
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Declaration

CV

Personal Profile

ID/Passport Number tircgog0091616	Citizenship Status Non-South African citizen
Country Of Birth Democratic Republic of Congo	Current Country Democratic Republic of Congo
Institution South African Qualifications Authority (SAQA)	Position/Delegation engineering
Race African	Identity Type Passport Number
Gender Male	Identity Document My CV _ NRF Connect orcide tshingombe.pdf
Institution Country Democratic Republic of Congo	Passport Expiry 23-Apr-2026 12:00:00 AM
Research Expertise Curriculum Policy and Management	Research Expertise Type Field of Specialisation

Application

Details of Nominator

Department School Department of Industrial & Systems Engineering	Position engineering electrical research

Details of Nomination

Last Name tshingombe	First Name tshingombe
Initials ts	Email Address tshingombefiston@gmail.com
Updated Full Cv Yes	Accept The Nomination Yes
Category Of Nomination Research Excellence Award for Early Career/Emerging Researchers	
Discipline Engineering	Discipline Type Default
Do You Hold Nrf Rating Yes	Institution CSIR - Defence and Security
Nrf Grant Reference engineering electrical career	Period Of Support For This Grant 2023
Reference Letter thesi project book , final engineerin tshingombe , time table allocation job cost.pdf	

Motivation for Nomination

Capture Value
Diploma in Electrical Technology
Develop solid foundational knowledge of the fundamentals of electrical technology in this free engineering course.
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Define electromagnetism and analyze...
Discuss the fundamentals of electri...
Identify circuit parameters and exp...

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Course Modules
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In this module, you will learn about the types of magnets and their properties. An analysis of the magnetic field and field lines of force will also be carried out. The module also... Read More

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Electricity and Its Application
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Diploma in Electrical Technology - Second Assessment
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Module
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Motivation For Nomination Field
Motivate/demonstrate achievements of research excellence through research outputs, clearly indicating the specific contributions of the nominee

Motivation For Nomination Field Link Category Of
Research Excellence Award for Early Career/Emerging Researchers

Motivation For Nomination Field Link is Compulsory	Motivation For Nomination Field Link max Length
Yes	8000

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Motivation For Nomination Field
Describe national and/or global relevance of research undertaken

Motivation For Nomination Field Link Category Of
Research Excellence Award for Early Career/Emerging Researchers

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Motivation For Nomination Field
Provide details of the outcome and/or impact of the research

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Motivation For Nomination Field
How will the nominee contribute to research in their field?

Motivation For Nomination Field Link Category Of
Research Excellence Award for Early Career/Emerging Researchers

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Motivation For Nomination Field
Summary of the nominee’s research project

Motivation For Nomination Field Link Category Of
Research Excellence Award for Early Career/Emerging Researchers

Motivation For Nomination Field Link is Compulsory	Motivation For Nomination Field Link max Length
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Motivation For Nomination Field
General/additional comments in support of nomination

Motivation For Nomination Field Link Category Of
Research Excellence Award for Early Career/Emerging Researchers

Motivation For Nomination Field Link is Compulsory	Motivation For Nomination Field Link max Length
Yes	8000

CV

Qualifications/Certifications

Academic Level of Qualification	Study Fields
Bachelors	Energy studies
Name Of Degree/Diploma (e.g. PhD)	Institution
engineering	South African Qualifications Authority (SAQA)
Fulltime	Distinction
Yes	N/A
Date of First Registration	Completed
2024-03-14	Yes
Highest Qualification	Date Obtained
Yes	2025-04-11

Academic Record/Transcript
Professional Resume_CV - Atlantic International University 2.pdf

Research Expertise

Scientific Domain

Engineering

Primary Research Fields

Engineering sciences	Technologies and applied sciences

Secondary Research Fields

Electrical Engineering	Education
Information and library science	

Field Of Specialisation

African environment	Additive manufacturing
Industrial and economic sociology	Analytical Environmental Chemistry
Applied Chemistry - Membrane Technology	Nanostructured materials and packaging

Materials science and Engineering	4th Industrial Revolution in the Construction Industry
Structural Geology	African oral literature

Student Supervision

Title Mr	Initials tsh
Surname tshingombe	Citizenship Status South African citizen
Race African	Gender Man
Institution South African Qualifications Authority (SAQA)	Level Honours
Name Of Degree/Diploma (e.g. PhD) tshingmbe	Is Fulltime Yes
Supervised From 2025	Supervised To 2025
Role Supervisor	Year First Registration 2023
Is Completed Yes	Year Awarded 2025

Career History

Type Permanent appointment	Position engineering electrical
Organisation enginering electrical	Sector Higher Education Sector
Is Current Yes	Appointed From 2025-04-14

Type Awards and prizes	Sector Higher Education Sector
Description saqa award degree diploma	

Type Awards and prizes	Sector Higher Education Sector

Description
engineering electrical science

Research Outputs

Summary

	2025	2024	2023	2022	2021	2020	2019	2018	2017	Total
Articles in Refereed/Peer-reviewed Journals	0	0	0	0	1	0	0	0	0	1

Articles in Refereed/Peer-reviewed Journals

Output Title
Conservative and Semismooth Derivatives are Equivalent for Semialgebraic Maps

Title of Journal Set-Valued and Variational Analysis	Authors Damek Davis, Dmitriy Drusvyatskiy
Status Published/produced	Year 2021
DOI 10.1007/s11228-021-00594-0	

Output Title
master education technology rural implentation framework

ISBN Number 520-03-123456	Title of Journal master education technology rural career thes
Volume 1900	Authors tshingombe
Status Attended	Publisher atlantic
DOI research thesist master doctoral	

Refereed/Peer-reviewed Conference Outputs

Output Title
https://github.com/Kananga5/Curriculum-section-1-1.1-Thesis.-Degree-honor-council-quality-rules-low-become-justice

ISBN Number 520	Contribution Title engineering ts
Proceeding Title research thesis	Authors tshingombe tshitadi
Status Attended	Country USA

Patents

Application Date 2025-04-14	Application Number 520520
Full Title engineering master doctoral	
Grant Date 2025-04-14	Grant Number 520520
Description engineering rural master doctoral	
Inventor Poster _____ 4.1 .12.1.Name of thesis : implementation and framework national qualification and national trade examination circulum experimental job theoretical pratical college and govern	
Application Type Continuing Application	Region South Africa
Status Granted	

Application Date 2025-09-15	Application Number 30

Full Title

AUTHORY: TSHINGOMBE TSHITADI
CURRICULUM

Career Discovery Overview: RNF, AIU, NSF Learning Journey within the National Trade Framework Qualification in Electrical Engineering
Author: Tshingombe Tshitadi Fiston

�� ABSTRACT

Grant Date
2025-09-15

Grant Number
2

Description

AUTHORY: TSHINGOMBE TSHITADI
CURRICULUM

Career Discovery Overview: RNF, AIU, NSF Learning Journey within the National Trade Framework Qualification in Electrical Engineering
Author: Tshingombe Tshitadi Fiston

�� ABSTRACT
This paper explores the intersection of career discovery, open-access learning, and credential transparency within the context of electrical engineering. It synthesizes insights from RNF (Recognition of National Frameworks), AIU (Atlantic International University), and NSF (National Science Foundation) initiatives to scaffold a transdisciplinary learning journey aligned with South Africa's National Trade Framework. The study proposes a modular, portfolio-driven approach to vocational education, integrating diagnostics, digital publishing, and global benchmarking.

�� SCOPE
• Electrical engineering education across formal, informal, and open-access platforms
• Credential alignment with SAQA/NQF, WA codes, and NSF SBIR/STTR frameworks
• Integration of AIU Guest Student modules into national qualification pathways
• Use of LMS, GitHub, and Internet Archive for portfolio documentation and career mapping
�� OVERVIEW
This work positions career discovery as a dynamic, data-driven process. It examines how learners can navigate trade qualifications through personalized learning paths, diagnostic assessments, and crede

Inventor

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Career Discovery Overview: RNF, AIU, NSF Learning Journey within the National Trade Framework Qualification in Electrical Engineering
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�� ABSTRACT
This paper explores the intersection of career discovery, open-access learning, and credential transparency withiRetail library collections (e.g., CNA, Shoprite) do not include modular casebooks for trade readiness and mentoring, missing a critical opportunity to democratize technical education.”

�� Tips for Crafting Your Own
• Start with evidence or observation
• Define the gap or deficiency
• Highlight the impact on learners, educators, or institutions
• Point to the need for your specific solution
Would you like help drafting a custom problem statement for a specific funder or proposal section? I can also help you align it with your logic model or theory of change.

Application Type	Region
Continuing Application	South Africa
Status	
Granted	

Full Title

AUTHOR : TSHINGOMBE TSHITADI
CURRICULUM

Career Discovery: Security, Safety, Defense Facilitation, Government Bill Skill Development, CCMA Labour Levy, and Engineering Skill Integration
Author: Tshingombe Tshitadi Fiston
SCOPE
This document investigates the intersection of national security facilitation, labour policy, and engineering skill development. It integrates CCMA labour frameworks, government bill implementatiour

Description

AUTHOR : TSHINGOMBE TSHITADI
CURRICULUM

Career Discovery: Security, Safety, Defense Facilitation, Government Bill Skill Development, CCMA Labour Levy, and Engineering Skill Integration
Author: Tshingombe Tshitadi Fiston
�� SCOPE
This document investigates the intersection of national security facilitation, labour policy, and engineering skill development. It integrates CCMA labour frameworks, government bill implementation, and vocational engineering diagnostics to support career readiness and systemic reform in technical education.
�� DESCRIPTION
The framework explores how security and defence-related competencies—such as safety audits, infrastructure diagnostics, and policy facilitation—can be scaffolded into credentialed engineering pathways. It includes analysis of CCMA labour levy systems, government skill development bills, and modular engineering training aligned with SAQA/NQF standards.
�� OVERVIEW SUMMARY
• Security & Safety: Risk assessment, compliance audits, and infrastructure protection
• Defence Facilitation: Technical support roles in public safety and emergency systems
• Government Bill Skills: Implementation of national training mandates and levy-funded programs
• CCMA Labour Levy: Workforce regulation, dispute resolution, and skill funding mechanisms
• Engineering Skills: Modular diagnostics, signal processing, and infrastructure simulation
This overview supports a transdisciplinary career model that blends policy, diagnostics, and technical education.
�� DATA ANALYSIS
Domain Data Source Key Insights
CCMA Labour Records Dispute resolution logs Skill gaps in regulated sectors
Government Skill Bills Legislative archives Funding allocations and compliance
Safety Audit Reports Infrastructure diagnostics Risk mitigation and training needs
Engineering Training Logs LMS and GitHub CI/CD Credential mapping and skill indexing
�� INVESTIGATION
• Field analysis of CCMA dispute cases and skill levy outcomes
• Review of government bills on vocational training and safety compliance
• Diagnostic mapping of engineering modules to public safety roles
• Integration of security protocols into LMS and credential artifacts
⚖ ADVANTAGESUIREMENTS (South Africa & UK Cont

Inventor

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Career10f discovery job trade memo lecture learn note.docx 170 KB

HBXUmm-k.pdf 272 KB

kzEoOz5g.pdf 215 KB

SARAO-HCD-Diploma-in-Engineering-Technology-Scholarship-Programme-2026-Application-Guide.pdf 140 KB

y4yEC4lC.pdf 181 KB

Career8 security safety policy defended faciltor gov bill skill developmen ccma labour levy.docx2.docx 200 KB

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Application

Expectations

Current Research Description
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Envisaged Research Description
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Equipment Experience
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Expectation
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Classification of Magnetic Materials
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Lesson Summary
0 2
Module
Electromagnetism
Revisit Course
Module
Electrical Fundamentals
Revisit Course
Module
Diploma in Electrical Technology - First Assessment
Revisit Course
Module
R, L, C Circuits
Revisit Course
Module

Electricity and Its Application
Revisit Course
Module
Diploma in Electrical Technology - Second Assessment
Revisit Course
Module
Course assessment
Revisit Course

Level Of Qualification	Level Of Study
Masters	Masters 1st year

Research Success Contribution
Diploma in Electrical Technology
Develop solid foundational knowledge of the fundamentals of electrical technology in this free engineering course.
Imagine having to live your day-to-day life without electricity. Everything around us is dependent on electricity: from our homes to workplaces, the way we watch our TVs to how massive factories are run. This online course gives you all the basic concepts, theories and applications of electricity that can become the building block of your study on this subject. So don't wait to enrol for free - begin your learning journey today!
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What You Will Learn In This Free Course

Describe the basic concepts of magn...
Define electromagnetism and analyze...
Discuss the fundamentals of electri...
Identify circuit parameters and exp...

View All Learning Outcomes
Course Modules
Course Description
Alison Certificates
Module
Basic Concepts of Magnetism
In this module, you will learn about the types of magnets and their properties. An analysis of the magnetic field and field lines of force will also be carried out. The module also... Read More
Revisit Course
Learning Outcomes
0 1
Magnetism Basics
6 11
Geomagnetism
2 5
Measurement of Magnetic Fields
1 5
Classification of Magnetic Materials
2 7
Lesson Summary
0 2
Module
Electromagnetism
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Application Support Input

Role Host of Research	Initials ts
First Name tshingombe	Surname tshingombe
Email tshingombefiston@gmail.com	Has Responded Yes

Attachments

Submission Document
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Declaration

Is Accepted
Yes